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**APPENDIX A**

Title : Radio Frequency Local Area Network

Inventors: Meier, et al.

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		i			b
					b
					b
m m mm	eeee	ii	eeee	r rrr	b bbb
mm m m	e e	i	e e	rr r	bb b
m m m	eeeeee	i	eeeeee	r	b b
m m m	e	i	e	r	b b
m m m	e e	i	e e	r	bb b
m m m	eeee	iii	eeee	r	b bbb

		d		ll			d		
		d		l			d		
		d		l			d		
m m mm	oooo	ddd d	u u	l	eeee	ssss	ddd d	oooo	cccc
mm m m	o o	d dd	u u	l	e e	s s	d dd	o o	c
c									
m m m	o o	d d	u u	l	eeeeee	ss	d d	o o	c
m m m	o o	d d	u u	l	e	ss	d d	o o	c
m m m	o o	d dd	u uu	l	e e	s s	d dd	o o	c
c									
m m m	oooo	ddd d	uuu u	lll	eeee	ssss	ddd d	oooo	cccc

					b
					b
					b
m m mm	eeee	ii	eeee	r rrr	b bbb
mm m m	e e	i	e e	rr r	bb b
m m m	eeeeee	i	eeeeee	r	b b
m m m	e	i	e	r	b b
m m m	e e	i	e e	r	bb b
m m m	eeee	iii	eeee	r	b bbb

## I. MAC layer files.

### - listen-before-talk algorithm:

lbt.h  
lbt.c

### - common routines:

mac.h  
mac.c

### - receive buffers:

macrxbuf.h  
macrxbuf.c

### - unicast receive routines:

macrxsm.c

### - transmit buffers:

mactxptr.h  
mactxptr.c

### - unicast transmit state machine:

mactxsm.c

### - unicast transmit and receive sequence control cache

mcbtbl.h  
mcbtbl.c

### - low-level transmit/recieve files:

common.h  
rc3250.h  
scc302.h  
system.h  
vectors.h  
hdlcdriv.h  
internal.h  
io.h  
sstcode.c  
sstphy.c

## II. Bridge layer (spanning tree) files.

- address server routines:

  - addrsrv.c
  - addrsrv.h

- address server task:

  - asrvtask.c

- address server task interface:

  - asrvtffc.c
  - asrvtffc.h

- attached bridge with a zero root priority:

  - bb\_a.c

- unattached bridge with a zero root priority:

  - bb\_u.c

- common routines:

  - bridge.c

- detached node list:

  - detlist.c
  - detlist.h

- pending message container files:

  - pendmsg.c
  - pendmsg.h
  - pmq.c
  - pmq.h

- attached bridge with a non-zero root priority:

  - r\_a.c

- unattached bridge with a non-zero root priority:

  - r\_u.c

- RARP (reverse address resolution packet) routing table:

  - rarptbl.c
  - rarptbl.h

- packet routing table:

  - routetbl.c
  - routetbl.h

- bridge function prototypes:

  - bridge.pro

### III. SST system support routines and header files.

- error codes:

- errcodes.h
  - arperr.h
  - brgerr.h
  - macerr.h
  - llcerr.h
  - nnmperr.h

- bridge layer system parameters and structures:

- bridge.h

- SST system parameters:

- sstsys.h

- system configuration records (used by the SST task manager):

- sysctl.h

- generic bubble sort routine:

- bublsort.c
  - bublsort.h

- bridge layer transmission queue:

- brgtxq.h
  - brgtxq.c

- SST system event and data buffer management functions:

- bufpool.h - header file for all buffer functions.
  - bufbrg.c - bridge layer specific buffer functions.
  - bufcoals.c - buffer coalesce functions.
  - bufcopy.c - buffer copy functions.
  - bufcre.c - buffer pool create functions.
  - bufdisp.c - buffer display function.
  - bufenter.c - data entry iterator functions.
  - bufevbuf.c - event buffer pointer functions.
  - bufhold.c - buffer hold functions.
  - bufiter.c - data iterator functions.
  - buflc.c - llc layer specific functions.
  - bufmac.c - mac layer specific functions.
  - bufpool.c - buffer pool initialization, post, get and release functions.
  - bufpostw.c - buffer post and wait function.
  - bufptr.c - event union pointer functions.
  - bufrepl.c - buffer replicate functions.

- SST device identifier functions:

deviceid.h  
deviceid.c

- generic integer set functions:

intset.h  
intset.c

- millisecond timer functions:

mstimer.h  
mstimer.c

- system millisecond timer task

mtmrtask.c

- network format to integer conversion functions:

ntoi.h  
ntoi.c

- generic queue/stack/list implementaion:

qsl.h  
qsl.c  
qsliter.c - queue/list iterator functions.  
qslpop.c - stack "pop" function.  
qslret.c - queue return (i.e. to the head of the queue) function.

- SST bridge layer in range node list:

rangelst.h  
rangelst.c

- root sequence function:

rootseq.h  
rootseq.c

- AMX task create functions:

runproc.h  
runp.c  
runproc.c

- RB4030/RB4020 switch functions:

sw4030.c

- AMX system timer interface functions:

timer.h  
timer.c

- timer list functions:

tmrlist.h  
tmrlist.c

#### IV. SST protocol stack for a non-Norand device (ACE):

- initialization and event handler:

ace.h  
ace.c

- ACE terminal MAC layer functions:

acemac.c

- terminal bridge layer address cache:

adrcache.c  
adrcache.h

- SST MAC for bus communications to an ACE entity:

busmac.c  
busmac.h

- ACE higher layer interface functions:

llcifc.c

- example LLC applications:

listen.c  
send.c

- dummy LLC layer:

llc.c  
llc.h

- LLC layer interface definition:

llcifc.h

- RC3250/RB4020/RB4030 task manager:

sstmgr.c

- example EEPROM system configuration:

stbase.c  
st3lisw.c

- terminal bridge layer:

t\_a.c           - attached terminal node.  
t\_bridge.c  
t\_u.c           - unattached terminal node.

#### V. Network management protocol modules.

- nnmp client protocol.

nnmp.h  
nnmp.c

- client application interface.

t\_nnmp.h  
nnmpifc.h  
nnmpifc.c

- example client application.

nnmpapp.c